



PAVING SCHEDULE

SYMBOL	DESCRIPTION	PATTERN	THICKNESS	COLOR	FINISH	JOINT SIZE	REINFORCING	COMMENTS
A	CONCRETE PAVING	PER PLAN	4"	TBD	#3 TOP CAST	3/16" SAWCUT	YES	SEE DETAIL -, SHEET -
B	CONCRETE PAVERS	PER PLAN	3" approx.	TBD	TBD	SAND	AGGREGATE SUB-BASE	SEE DETAIL -, SHEET -
C	DECOMPOSED GRANITE PAVING	N/A	4"	MOJAVE GOLD	NATURAL	N/A	--	SEE DETAIL -, SHEET -
D	ASPHALT PAVING	N/A	PER CIVIL	STD.	N/A	N/A	N/A	PER CIVIL DRAWINGS
E	FLUSH CONCRETE BAND	PER PLAN	9"	TBD	TBD	3/16" SAWCUT	YES	SEE DETAIL -, SHEET -
F	2' WIDE DIRT PATH	N/A	ON-GRADE	NATURAL SOIL	N/A	N/A	N/A	SEE PLAN

WALL SCHEDULE

SYMBOL	DESCRIPTION	MATERIAL	HEIGHT	WIDTH	CAP	CAP FINISH/TEXTURE	COMMENTS
W-1	CONCRETE SEAT HEIGHT RETAINING WALL	CONCRETE	18"	24"	N/A	TBD	SEE DETAIL X, SHEET L4XX
W-2	CONCRETE ECO-MACHINE WALL	CONCRETE	18"	12"	N/A	TBD	SEE DETAIL X, SHEET L4XX

SITE FURNISHING SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	CONTACT	MODEL NO.	COLOR/FINISH/MATERIAL	REMARKS
S-1	METAL BENCH	TBD	TBD	TBD	TBD	SEE DETAIL X, SHEET LXX
S-2	PATIO TABLE	TBD	TBD	TBD	TBD	SEE DETAIL X, SHEET LXX
S-3	TRASH RECEPTACLE 36 GALLON	TBD	TBD	TBD	TBD	SEE DETAIL X, SHEET LXX
S-4	BIKE RACK	TBD	TBD	TBD	TBD	SEE DETAIL X, SHEET LXX
NOTE: BENCHES SHALL BE ANCHORED TO PAVEMENT PER THE MANUFACTURER'S RECOMMENDATION.						

GENERAL CONSTRUCTION NOTES:

- ENSURE THAT FINE GRADES HAVE BEEN SET CORRECTLY PRIOR TO INSTALLING WALKS, FOOTINGS, WALLS, AND OTHER STRUCTURES.
- CONFORM WORK TO REQUIREMENTS OF LATEST ADOPTED EDITION OF UNIFORM BUILDING CODE AND OTHER APPLICABLE LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
- DIMENSIONS INDICATED ON DRAWINGS ARE TAKEN FROM OUTSIDE FACE OF WALLS, PAVING, CURBS, ETC. UNLESS INDICATED OTHERWISE ON DRAWINGS.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALING OF DRAWINGS.
- WHERE CONFLICTS OCCUR BETWEEN GENERAL CONSTRUCTION NOTES, DRAWINGS AND ACTUAL FIELD CONDITIONS, NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE FOR CLARIFICATION. FAILURE TO PROVIDE SUCH NOTIFICATION MAY MAKE CONTRACTOR LIABLE FOR COSTS INCURRED TO RECTIFY THE DISCREPANCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES, AND DRAWINGS FOR VERIFYING LOCATIONS OF UNDERGROUND UTILITIES, PIPES AND RELATED STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COSTS INCURRED DUE TO DAMAGE OF SAID UTILITIES IF PROPER VERIFICATION WAS NOT PERFORMED.
- THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION OPERATIONS WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN PROCESS. THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH CONDITIONS TO THE ATTENTION OF OWNER'S AUTHORIZED REPRESENTATIVE FOR RESOLUTION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR COSTS INCURRED AND REQUIRED MODIFICATIONS DUE TO LACK OF PROVIDING SUCH NOTIFICATION.
- COORDINATE WITH OTHER CONTRACTORS' WORK TO PROPERLY EXECUTE CONTRACTOR'S WORK.
- ENSURE THAT DRAINLINES, ELECTRICAL CONDUITS, SLEEVES, ETC., ARE IN PLACE PRIOR TO INSTALLATION OF PAVING AND WALLS.
- REPLACE OR REPAIR EXISTING MATERIALS THAT ARE DAMAGED BY CONTRACTOR DURING CONSTRUCTION OPERATIONS.
- PAVING AND SEALANT MOCK-UPS ARE REQUIRED - REFER TO SPECIFICATION FOR COMPLETE MOCK-UP CRITERIA.
- ENSURE THAT CURVED EDGES HAVE SMOOTH AND CONTINUOUS CURVES.
- VERIFY PROPERTY AND LIMIT-OF-WORK LINES PRIOR TO COMMENCING WORK.
- REFER TO CITY AND COUNTY STANDARDS FOR STANDARD PLANS AND SPECIFICATIONS WHERE APPLICABLE.

CONSTRUCTION LEGEND:

SYM.	DESCRIPTION	REMARKS
1	HANDICAP PARKING SPACE	REFER TO CIVIL ENGINEER PLANS
2	CONCRETE CURB AND GUTTER	REFER TO CIVIL ENGINEER PLANS
3	CONCRETE WHEEL STOP	REFER TO CIVIL ENGINEER PLANS
4	SERVICE PARKING	REFER TO CIVIL ENGINEER PLANS
5	TRASH/RECYCLING BIN ENCLOSURE	REFER TO CIVIL ENGINEER PLANS
6	EXISTING WROUGHT IRON FENCE/GATE	REFER TO CIVIL ENGINEER PLANS
7	SALVAGED/NEW WROUGHT IRON FENCE	REFER TO CIVIL ENGINEER PLANS
8	FIRE ACCESS GATE	REFER TO CIVIL ENGINEER PLANS
9	TRANSFORMER PAD	REFER TO CIVIL ENGINEER PLANS
10	FIRE HYDRANT	REFER TO CIVIL ENGINEER PLANS
11	MANHOLE	REFER TO CIVIL ENGINEER PLANS
12	CATCH BASIN/AREA DRAIN	REFER TO CIVIL ENGINEER PLANS
13	CROSSWALK	REFER TO CIVIL ENGINEER PLANS
14	CURB RAMP	REFER TO CIVIL ENGINEER PLANS
15	SIGNAGE	REFER TO CIVIL ENGINEER PLANS
16	LANDFORM	REFER TO CIVIL ENGINEER PLANS
17	EXISTING CONCRETE RAMP TO REMAIN	PROTECT IN PLACE
18	EXISTING SIGN TO REMAIN	PROTECT IN PLACE
19	BIOSWALE	SEE DETAIL X, SHEET L4XX
20	ECO-MACHINE ENCLOSURE	REFER TO ARCHITECT DRAWINGS
21	ECO-MACHINE	BY OTHERS
22	ECO-MACHINE WALL	SEE DETAIL X, SHEET L4XX
23	VEGETABLE GARDEN	BY OTHERS
24	STONE DRAINAGE STRIP	SEE DETAIL X, SHEET L4XX
25	IN-GROUND LED LIGHT STRIP	SEE DETAIL X, SHEET L4XX
26	BOLLARD LIGHT	SEE DETAIL X, SHEET L4XX
27	SAWCUT JOINT	SEE DETAIL X, SHEET L4XX
28	EXPANSION JOINT	SEE DETAIL X, SHEET L4XX
29	PREFABRICATED BENCH	SEE DETAIL X, SHEET L4XX
30	TRASH RECEPTACLE	SEE DETAIL X, SHEET L4XX
31	BIKE RACK	SEE DETAIL X, SHEET L4XX
32	CONCRETE WALK/PAVER CONNECTION	SEE DETAIL X, SHEET L4XX

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PROJECT STATUS

PRELIMINARY - NOT FOR CONSTRUCTION

ISSUE

1

2/16/09

90% QAQC & COST ESTIMATE

MARK

DATE

DESCRIPTION

BROWN

DATE

Ames Research Center

Moffet Field, California

DESIGNED

DATE

CHECKER

DATE

PROJ.MGR

DATE

REQUESTOR

DATE

PRQA

DATE

SAFETY

DATE

SUPERVISOR

DATE

SIZE

D

CAGE CODE

25307

A232-0800-

L100

REV


SCALE

INDEX

SHEET

OF

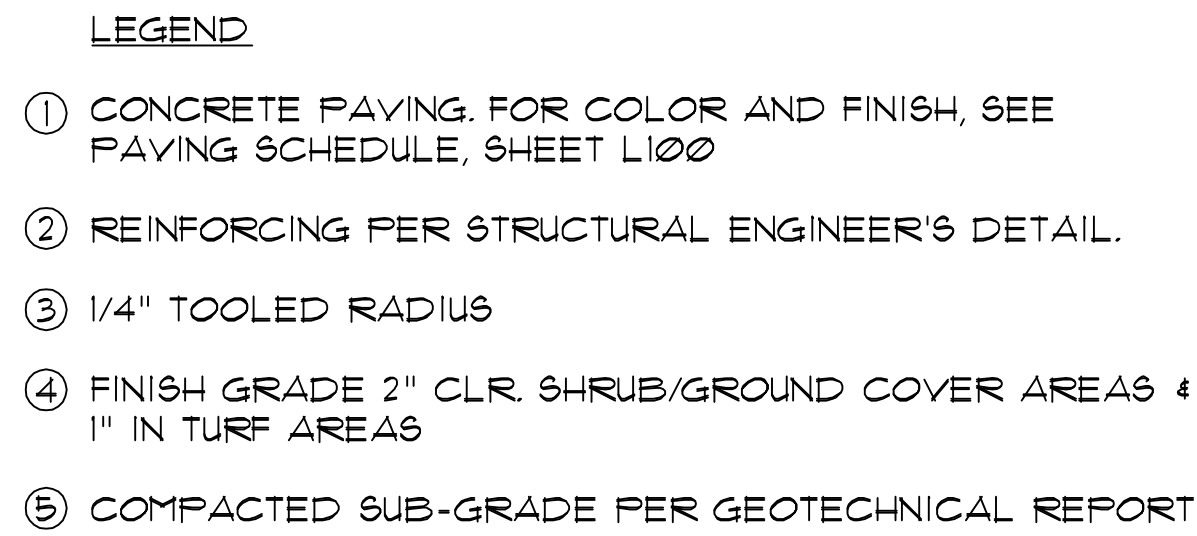
PRELIMINARY - NOT FOR CONSTRUCTION

<b>ISSUE</b>		
1	2/16/09	90% QAQC & COST ESTIMATE
<b>MARK</b>	<b>DATE</b>	<b>DESCRIPTION</b>
DRAWN	DATE	 <p style="text-align: center;"><b>Ames Research Center</b> Moffett Field, California</p> <p>N232 COLLABORATIVE SUPPORT FACILITY</p> <h1 style="text-align: center;">SITE CONSTRUCTION PLAN</h1>
RESTORED	DATE	
CHECKED	DATE	
PRI/MGR	DATE	
REQUESTOR	DATE	
RISA	DATE	
SAFETY	DATE	
SUPERVISOR	DATE	
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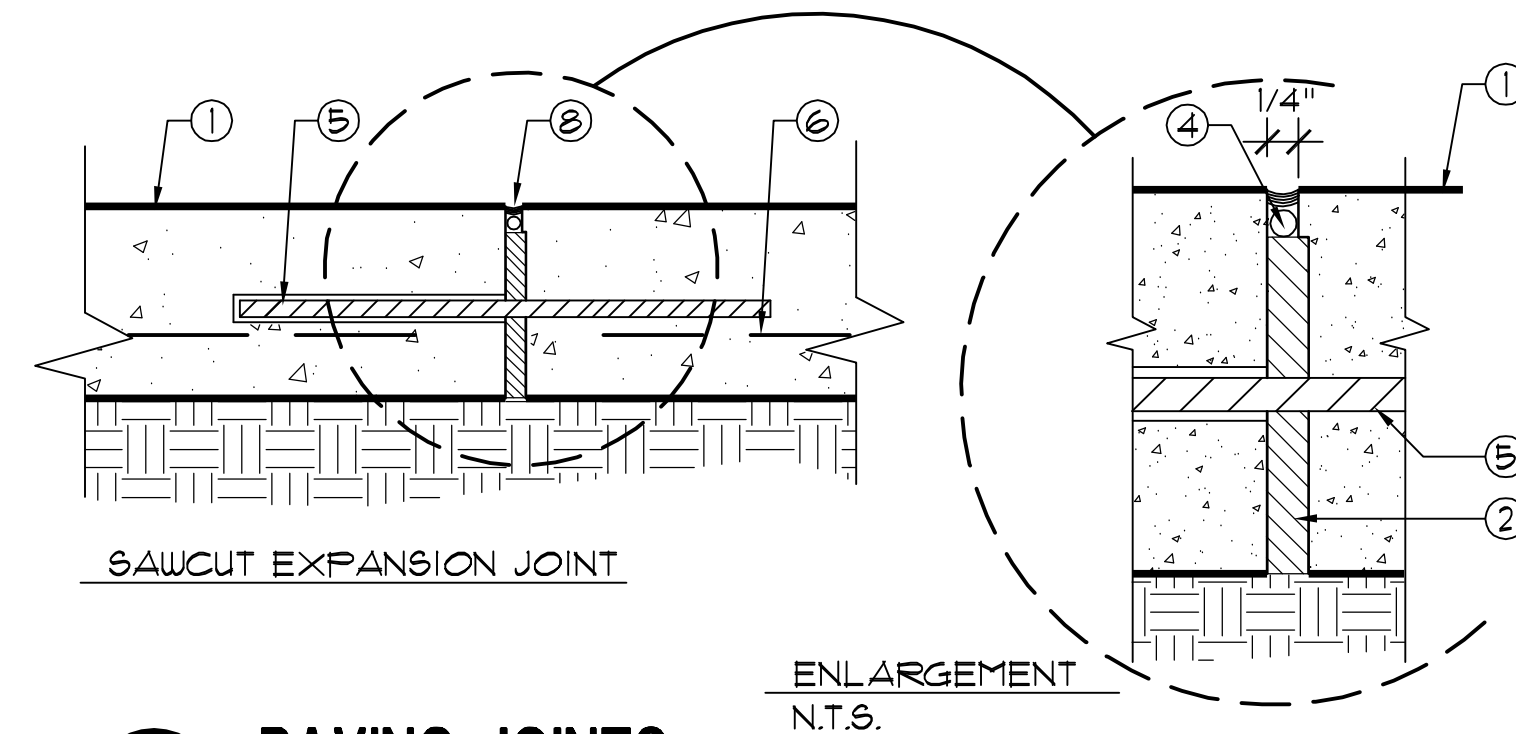






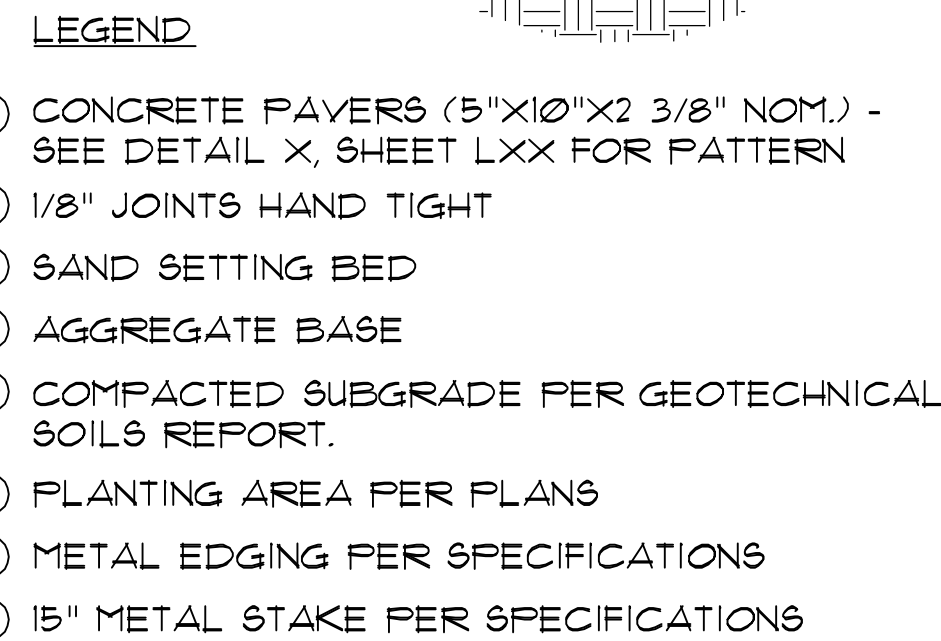
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D-COPAV-PEDESTRIAN



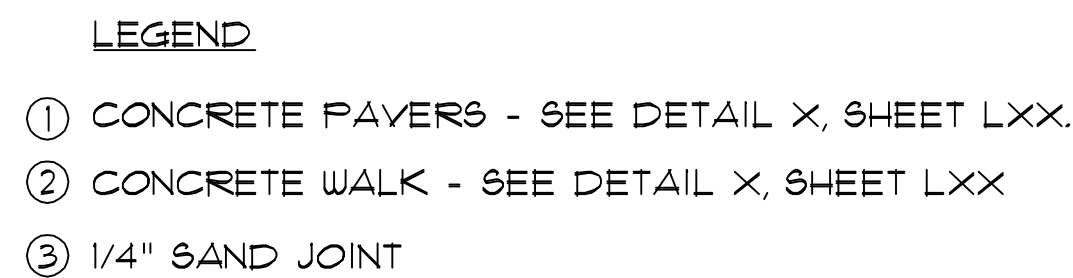
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D-PAVJOINTS



SCALE: 1 1/2" = 1'-0"

D-paver-sand



SCALE: 1 1/2" = 1'-0"

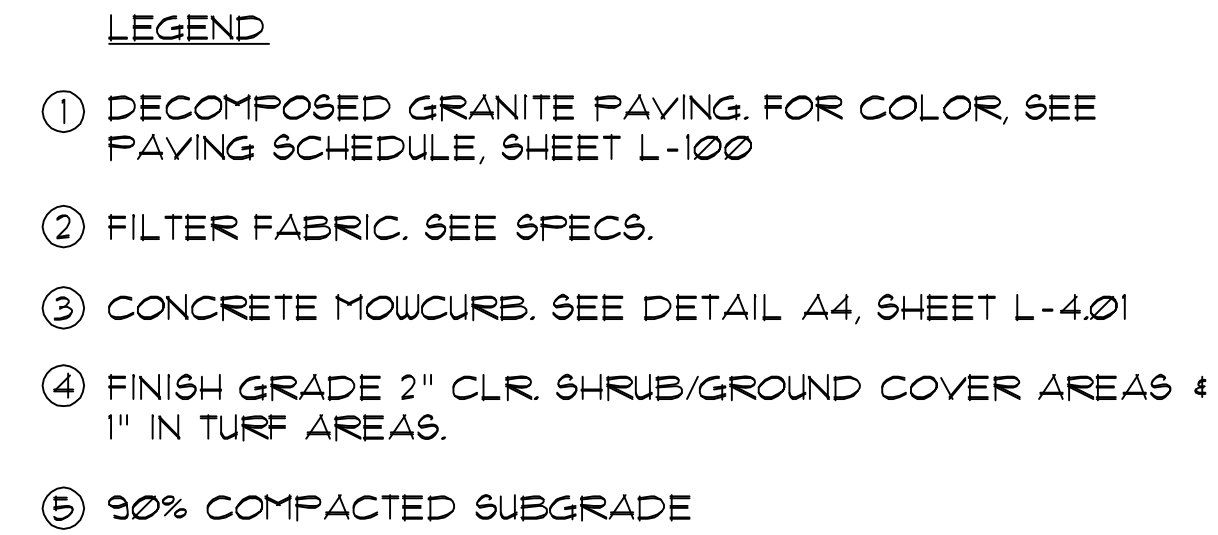
D-paver-sand



**\*\*PAVER TYPE AND PATTERN T.B.D**

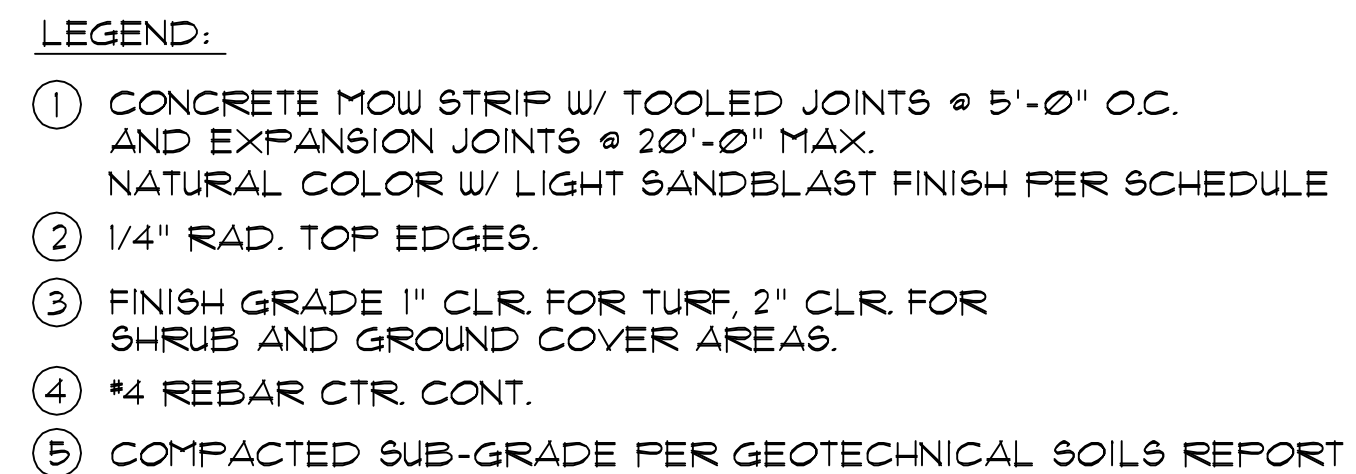
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D-PAVER-PATTERN



SCALE: 1 1/2" = 1'-0"

D-DGPAV



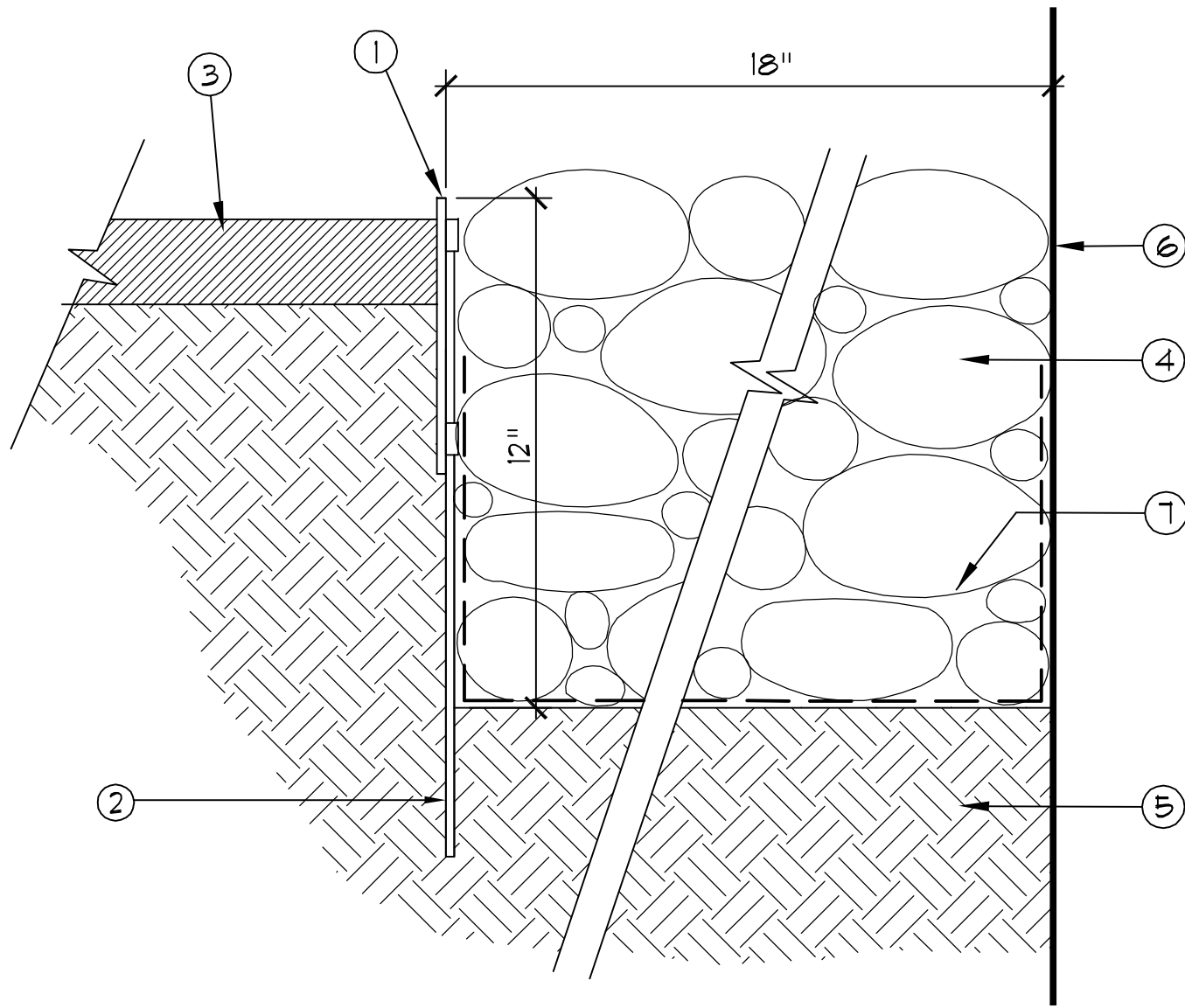
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D-6MOW

KEY PLAN	NORTH ARROW



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DATE: Feb 16, 2009 - 5:21:12 pm Images:  
Xrefs: XDR "D-CONC-RET-WALL" "D-gravel-drainage" "D-Metal-BikeRack-03" "D-Trash-Pad-01"



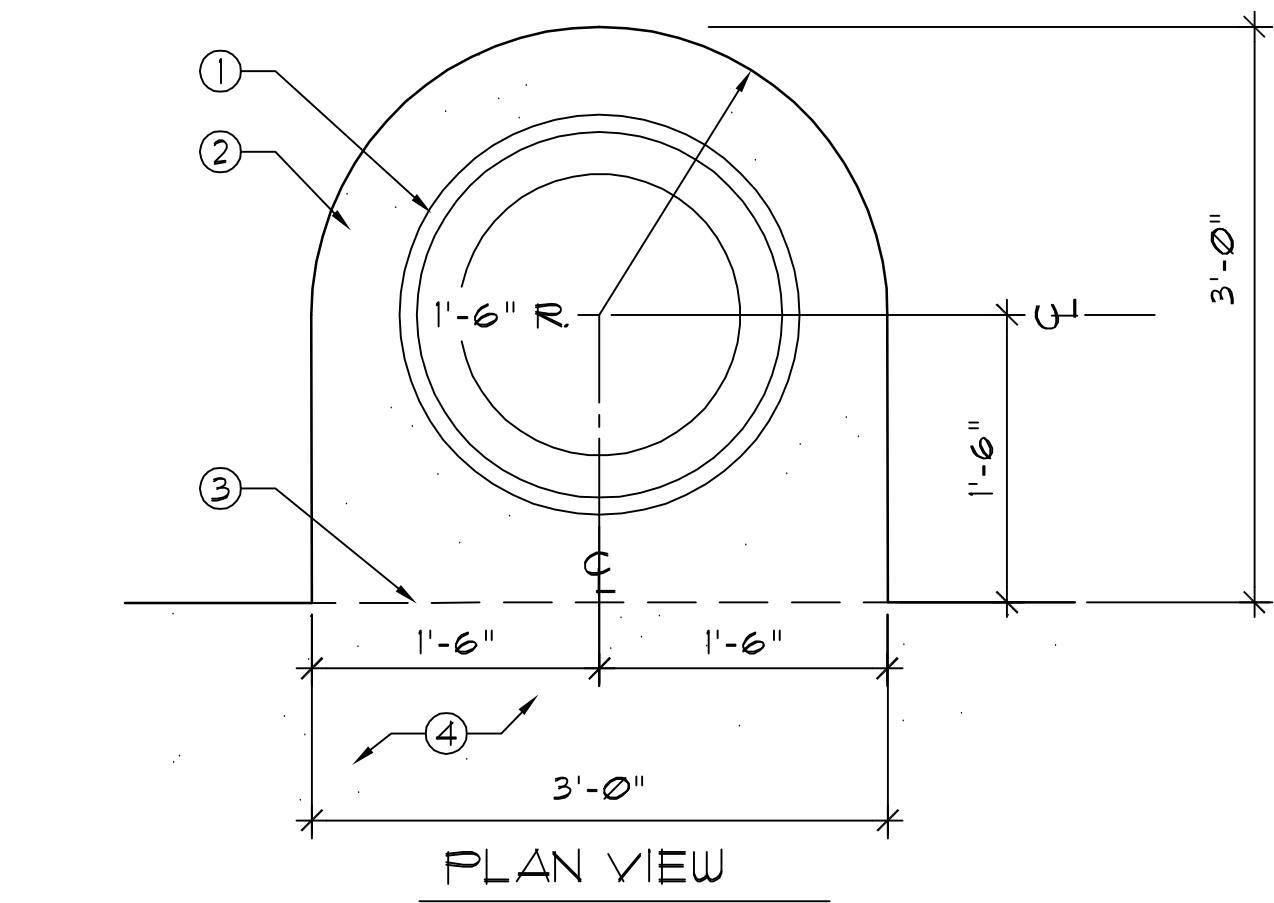
**LEGEND:**

- ① STEEL EDGING  
PER SPECIFICATIONS.
- ② 15" STEEL STAKE -  
PER MANUFACTURER
- ③ MULCH PLANTING BED -  
PER PLAN
- ④ DECORATIVE ROCK -  
SIZE TBD
- ⑤ COMPACTED SUB GRADE
- ⑥ BUILDING FACE
- ⑦ WEED BARRIER FABRIC -  
PER SPECIFICATIONS.

**STONE DRAINAGE STRIP**

SCALE: 3" = 1'-0"

D-GRAVEL-DRAINAGE



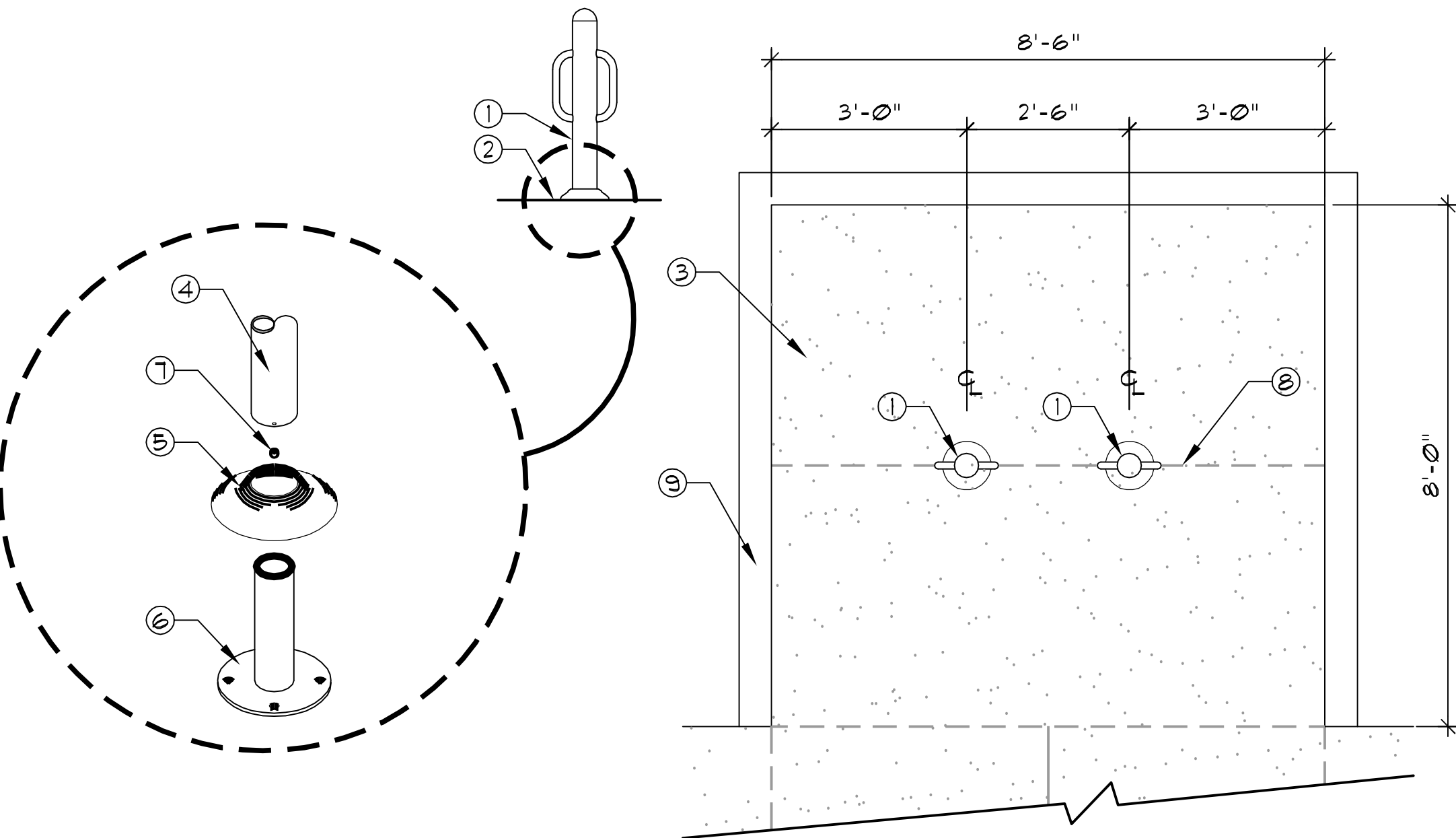
**LEGEND**

- ① TRASH RECEPTACLE PER SITE FURNISHINGS  
SCHEDULE, SHEET L1.00
- ② CONCRETE PAVING PER PAVING  
SCHEDULE, SHEET L1.00
- ③ CAULKED EXPANSION JOINT
- ④ WALKWAY PER PAVING SCHEDULE, SHEET L-1.00.

**TRASH RECEPTACLE PAD**

SCALE: 1"=1'-0"

D-TRASH



- ① PEDESTAL MOUNT BICYCLE RACK REFER  
SITE FURNISHING SCHEDULE SHEET L-1.00.
- ② FINISH SURFACE
- ③ CONCRETE PAVING TO MATCH APPROVED  
PARK PAVING SAMPLE.
- ④ NOT USED
- ⑤ BASE COVER
- ⑥ PIPE WITH FLANGE. ANCHOR BOLTS PER  
MANUFACTURE SPECIFICATIONS ( TO BE  
STAINLESS STEEL).
- ⑦ (2) HEX SOCKET SET SCREW
- ⑧ PAVING JOINTS, SEE DETAIL F4,  
SHEET L-4.01
- ⑨ CONCRETE CURB PER CIVIL ENGINEER'S  
DRAWINGS. COLOR TO MATCH APPROVED  
COLORED PAVING.

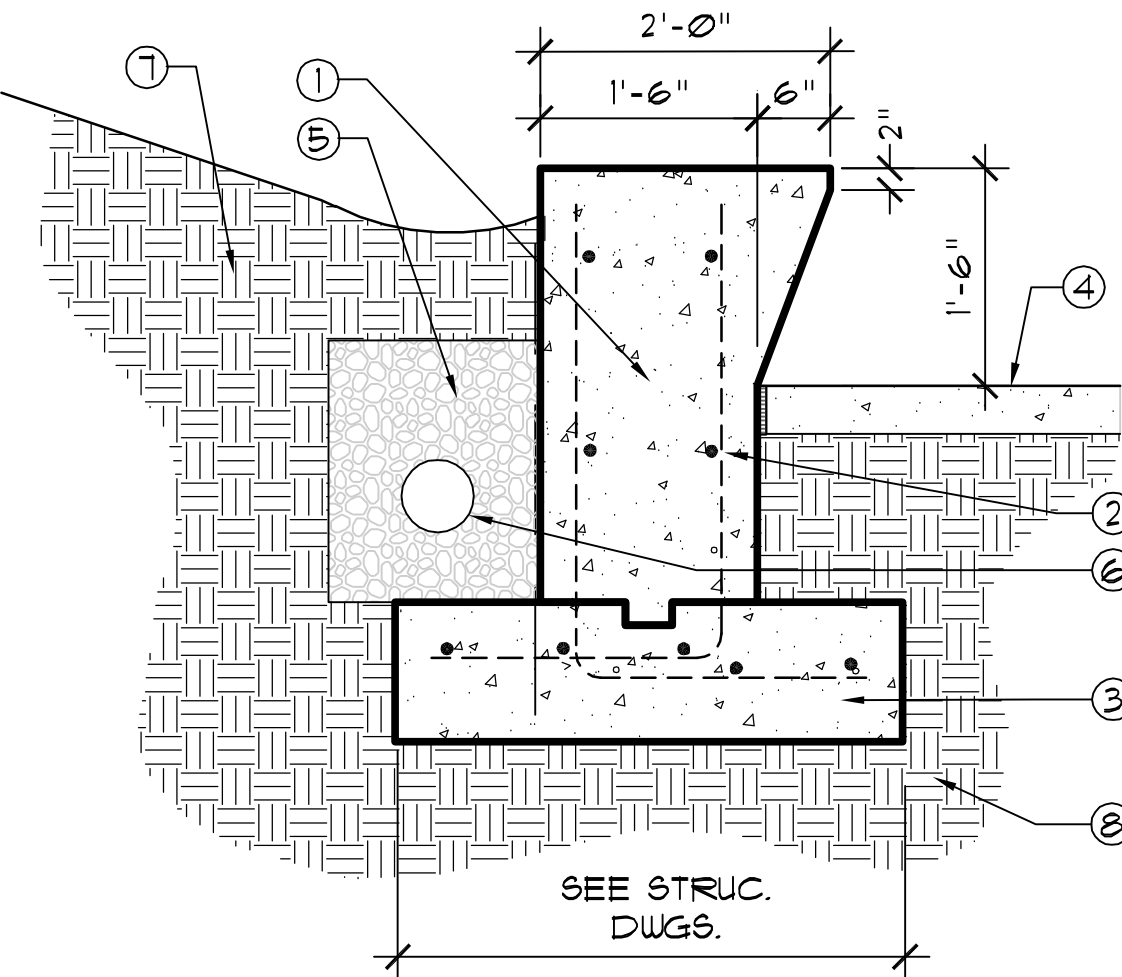
**INSTALLATION SEQUENCE**

1. USE BICYCLE RACK AND PIPE WITH  
FLANGE TO LOCATE ANCHORS.
2. INSTALL PIPE WITH FLANGE.
3. SLIDE BASE COVER ON TO  
BOTTOM OF BICYCLE RACK AS  
SHOWN.
4. SLIDE BICYCLE RACK ON TO PIPES.
5. WHILE HOLDING BASE COVER  
OUT OF THE WAY, INSERT AND  
TIGHTEN HEX SOCKET SET SCREWS.
6. ALLOW THE BASE COVER TO SLIDE  
DOWN TO GRADE

**BIKE RACK**

SCALE: 1/2"=1'-0"

D-BIKE RACK



**LEGEND:**

- ① CAST IN PLACE CONCRETE  
EXPANSION JOINT
- ② REINFORCING STEEL. SEE  
STRUCTURAL ENG. DWGS.
- ③ CONCRETE FOOTING. SEE  
STRUCTURAL DWGS.
- ④ CONCRETE PAVING - PEDESTRAIN.  
SEE DETAIL X, SHEET L4X.
- ⑤ GRANULAR FILL
- ⑥ FOUNDATION DRAIN. SEE CIVIL  
DWGS.
- ⑦ FINISH GRADE
- ⑧ COMPACTED SUB GRADE PER  
GEOTECHNICAL SOILS REPORT

**CONCRETE SEAT HEIGHT RETAINING WALL**

SCALE: 3/4"=1'-0"

D-CONC-RET-WALL

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REVISOR

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SAFETY

DATE

SUPERVISOR

DATE



**Ames Research Center**  
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

**CONSTRUCTION  
DETAILS**

SIZE

D

CASE CODE

25307

PROJECT CODE

A232-0800-

PROJECT CODE

L402

REV

SCALE

INDEX

SHEET

OF

## GENERAL PLANTING NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARITY WITH ALL UNDERGROUND UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES OR STRUCTURES.
- DO NOT WILLFULLY PROCEED WITH PLANTING OPERATIONS AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN PROCESS. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH HIS PLANTING OPERATIONS.
- THE CONTRACTOR IS TO RECEIVE THE ON-GRADE PORTION OF THE SITE A +/- 1/10 OF AN INCH. THE CONTRACTOR SHALL OBTAIN A LETTER OF GRADE CERTIFICATION FROM THE OWNER PRIOR TO BEGINNING WORK.
- REFER TO THE SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
- FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO DIGGING ANY HOLES. CONTRACTOR IS TO DO THE FOLLOWING BEFORE BEGINNING PLANTING OPERATIONS:

SHRUBS - LAY OUT THE ACTUAL CONTAINERS ON-SITE BEFORE DIGGING HOLES.

TREES - STAKE THE LOCATIONS BEFORE DIGGING HOLES. ANY TREE PLANTED WITHOUT ITS FINAL LOCATION APPROVED BY THE LANDSCAPE ARCHITECT MAY BE REQUESTED TO BE RELOCATED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AT LEAST 48 HOURS IN ADVANCE BEFORE THE START OF WORK TO COORDINATE PROJECT OBSERVATION SCHEDULES.
- IF CONFLICTS ARISE BETWEEN THE ACTUAL SIZE OF AREAS ON THE SITE AND THE DRAWINGS, CONTACT THE LANDSCAPE ARCHITECT FOR RESOLUTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL FREE OF PESTS OR PLANT DISEASES. PRE-SELECTED OR "LANDSCAPE ARCHITECT - TAGGED" PLANT MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S OBLIGATION TO WARRANTY ALL PLANT MATERIAL PER THE SPECIFICATIONS.
- GROUND COVERS AND SHRUBS ARE TO BE TRIANGULARLY SPACED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- ALL TREES SHALL HAVE MATCHING FORM, UNLESS NOTED OTHERWISE ON THE PLANTING PLAN.
- INSTALL LINEAR ROOT BARRIERS FOR ALL TREES WITHIN 5 FEET OF CONCRETE CURB, CONCRETE PAVING, PILASTER OR WALL. INSTALL ("DEEP ROOT" RUB 24x2 POLYPROPYLENE WITH ØØ85" WALLS) AS MANUFACTURED BY DEEP ROOT COMPANY AT 345 LORTON AVENUE, SUITE #103 BURLINGAME, CA 94010.
- ALL SHRUB AND GROUND COVER AREAS (EXCLUDING TURF AND BUFFALO GRASS) ARE TO BE MULCHED PER SPECIFICATIONS.
- AFTER FINISH GRADES HAVE BEEN ESTABLISHED FOR ALL ON-GRADE PLANTING AREAS, THE CONTRACTOR SHALL HAVE SOIL SAMPLES TAKEN AT THE TWO (2) LOCATIONS. THESE SOIL SAMPLES SHALL BE TESTED BY A QUALIFIED SOILS TESTING LABORATORY FOR SOIL FERTILITY, AGRICULTURAL SUITABILITY, AND SOIL PREPARATION RECOMMENDATIONS. TWO (2) SAMPLES SHALL BE TAKEN AT EACH LOCATION, ONE (1) AT GROUND LEVEL TO 12" DEEP, AND THE SECOND AT 24" TO 36" DEEP. EACH SOIL SAMPLE SHALL CONTAIN APPROXIMATELY ONE (1) QUART OF SOIL AND BE LABELED ON A PLAN FOR LOCATION AND DEPTH. THE CONTRACTOR MAY BE REQUESTED TO AMEND THE SOIL TO CONFORM TO THESE RECOMMENDATIONS. ANY AMENDMENT HOWEVER, WOULD BE REQUESTED OF THE CONTRACTOR ONLY UPON WRITTEN RECEIPT OF CHANGE ORDER FROM THE OWNER.
- ALL TREES SHALL EQUAL OR SURPASS "VALLEY CREST TREE COMPANY" STANDARDS FOR SIZE AND QUALITY. (WWW.VCTREE.COM)
- ALL SHRUBS AND GROUND COVER SHALL EQUAL OR SURPASS "HINES HORTICULTURE" STANDARDS FOR SIZE AND QUALITY. (WWW.HINESHORTICULTURE.COM)

## TREE PRESERVATION NOTES

- EXISTING TREES SHALL BE IDENTIFIED PER THE SATISFACTION OF THE CONTRACTOR AND SHALL BE PRESERVED WITH PROTECTIVE FENCING TO ESTABLISH A TREE PROTECTION ZONE. THIS AREA ENCIRCLES THE TREE(S) AT THE OUTER MOST EDGE OF CANOPY OR DRIPLINE AND PROTECTS THE ROOTS GROWING TYPICALLY WITHIN THE TOP 18" OF THE SOIL TO THE DRIPLINE AND BEYOND. SUBCONTRACTOR SHALL PROVIDE PHOTOS AND DRAWINGS TO CONTRACTOR'S AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ESTABLISHING PROTECTIVE FENCING.
- PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO ANY EARTHWORK AND UNTIL WORK IS COMPLETE. FENCING SHALL BE A NOMINAL FOUR FEET IN HEIGHT AND INSTALLED AT THE OUTER MOST EDGE OF THE DRIPLINE. THE TEMPORARY FENCING SHALL BE SAFETY ORANGE COLOR, PLASTIC WEBBING, SUPPORTED BY STEEL T-BAR STAKES OR CHAIN LINK FENCING.
- NO CONSTRUCTION OR STAGING EQUIPMENT IS ALLOWED WITHIN THE TREE PROTECTION ZONE AND WITHIN DRIPLINES INCLUDING HEAVY EQUIPMENT THAT WILL COMPACT AND DAMAGE THE ROOTS.
- NO DISPOSAL OF CONSTRUCTION MATERIALS OR BY PRODUCTS INCLUDING PAINT, PLASTER OR CHEMICAL SOLUTIONS IS ALLOWED WITHIN THE TREE PROTECTION ZONE.
- NATURAL OR PRECONSTRUCTION GRADE SHALL BE MAINTAINED WITHIN THE TREE PROTECTION ZONE. AT NO TIME SHALL SOIL BE IN CONTACT WITH THE TREE TRUNK ABOVE THE ROOT FLARE.
- THE PROTECTION ZONE SHOULD BE IRRIGATED SUFFICIENTLY WITH CLEAN POTABLE WATER TO KEEP THE TREE IN GOOD HEALTH AND VIGOR BEFORE DURING AND AFTER CONSTRUCTION. DEEP WATERING MAY BE NECESSARY ON A WEEKLY BASIS.
- WORK CONDUCTED IN THE GROUND WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND TOOLS OR AN AIR SPADE.
- AVOID CUTTING ROOTS LARGER THAN 2" DIAMETER. CUTS SHOULD BE CLEAN AND MADE AT RIGHT ANGLES TO THE ROOTS. WHEN PRACTICAL, CUT ROOTS BACK TO A BRANCHING LATERAL ROOT. TRENCHES FOR PIPING SHALL BE BORED UNDER AT A MINIMUM OF 36" DEEP. CONSULT A CERTIFIED ARBORIST TO BE PRESENT IF MORE THAN 33% OF THE ROOT ZONE IS IMPACTED OR ROOTS GREATER THAN 2" WITHIN 5' OF THE TRUNK WILL BE CUT, TO ENSURE TREE STABILITY AND THAT HEALTH WILL NOT BE AFFECTED.
- VERIFY IF PRUNING FOR CLEARANCE IS NEEDED TO PREVENT DAMAGING BRANCHES WITH LARGE EQUIPMENT. ALL PRUNING SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS. (INTERNATIONAL SOCIETY OF ARBORICULTURE OR ANZI 133.1), UNDER THE DIRECTION OF A CERTIFIED ARBORIST AND WITH THE APPROVAL OF THE OWNER.
- ROOT PRUNE ONLY AS REQUIRED AND AS DIRECTED BY PROJECT ARBORIST WITH OWNER'S APPROVAL.

ARCHITECT OF RECORD

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PROJECT STATUS

**PRELIMINARY - NOT FOR CONSTRUCTION**

ISSUE

**1**      **2/16/09**      **90% QA/QC & COST ESTIMATE**

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PREPARED

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REVISOR

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SAFETY

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SUPERVISOR

DATE

SIZE

**D**

CASE CODE

**25307**

PROJECT CODE

**A232-0800-**

PROJECT CODE

**L600A**

REV

SCALE

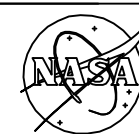
INDEX

SHEET

OF

KEY PLAN

NORTH ARROW



**Ames Research Center**  
Moffet Field, California

**N232 COLLABORATIVE SUPPORT FACILITY**

**PLANTING NOTES**



PLANT SCHEDULE

TREE LEGEND

SYMBOL	ABBR	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	REMARKS
	EX. (TREE)	EXISTING TREE	--	--	--	PROTECT IN PLACE - SEE DETAIL X, SHEET L651
	ACE CIR	ACER CIRCINATUM	VINE MAPLE	24" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	ACE MAC	ACER MACROPHYLLUM	BIGLEAF MAPLE	36" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	ARB MEN	ARBUTUS MENZIESII	MADRONE	15 GAL.	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	COR NUT	CORNUS NUTTALLII	WESTERN DOGWOOD	15 GAL.	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	MAG GRA	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	36" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	FLA ACE	PLATANUS X ACERFOLIA	LONDON PLANE TREE	36" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	FLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	36" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	QUE LOB	QUERCUS LOBATA	VALLEY OAK	36" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	QUE KEL	QUERCUS KELLOGGI	CALIFORNIA BLACK OAK	36" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651
	SEQ SEM	SEQUOIA SEMPERVIRENS	REDWOOD	EXISTING	X	TRANSPLANTED FROM SITE.
	TOR CAL	TORREYA CALIFORNICA	CALIFORNIA NUTMEG	24" BOX	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651

SHRUB LEGEND

SYMBOL	ABBR	BOTANICAL NAME	COMMON NAME	SIZE / SPACING	QUANTITY	REMARKS
	RHO MAC	RHODODENDRON MACROPHYLLUM	CALIFORNIA ROSE BAY	15 GAL / PER PLAN	X	MATCHED STANDARDS - SEE DETAIL X, SHEET L651

GROUND COVER LEGEND

SYMBOL	ABBR	MIX NAME	MIX USE AREA	SIZE / SPACING	QUANTITY	REMARKS
	MIX 1	GROUND COVER MIX #1	BIORETENTION AREAS	PER SCHEDULE	12,841 SF	SEE GROUND COVERS SCHEDULE THIS SHEET.
	MIX 2	GROUND COVER MIX #2	BUILDING EDGES	PER SCHEDULE	12,841 SF	SEE GROUND COVERS SCHEDULE THIS SHEET.
	MIX 3	GROUND COVER MIX #3	NATIVE GRASSLAND	PER SCHEDULE	12,841 SF	SEE GROUND COVERS SCHEDULE THIS SHEET.
	MIX 4	GROUND COVER MIX #4	SHADE TOLERANT	PER SCHEDULE	12,841 SF	SEE GROUND COVERS SCHEDULE THIS SHEET.
	MIX 5	GROUND COVER MIX #5	LOW GROW TURF	PER SCHEDULE	12,841 SF	SEE GROUND COVERS SCHEDULE THIS SHEET.

CALL-OUT SYMBOLS (TREE, SHRUB AND GROUND COVER)

← BOTANICAL NAME ABBREVIATED

SHRUBS AND GROUNDCOVERS LEGEND

QTY	BOTANICAL	COMMON NAME	SIZE/ROOT	RATE/SPACING
MIX # 1 - BIORETENTION				
	CRASSULA AQUATICA	water pygmyweed	seed	5LBS/ACRE
	DOWNINGIA BICORNATA	double horned calicoflower	seed	5LBS/ACRE
	DOWNINGIA CUSPIDATA	toothed calicoflower	seed	5LBS/ACRE
	FRITILLARIA LILACEA	fragrant fritillary	bulb	ERRATIC CLUSTERS OF 2-3 POTS (3-4 bulbs per 4" pot approx)
	HORDEUM INTERCEDENS	vernal barley	seed	5LBS/ACRE
	JUNCUS BUFONIUS	common toad rush	seed	5LBS/ACRE
	LASTHENIA GLABRATA-	yellowray goldfields	seed	5LBS/ACRE
	MYOSURUS MINIMUS	little mouseli-	seed	5LBS/ACRE
MIX # 2 - BUILDING EDGES				
	SALVIA SPATHACEA -	hummingbird sage	1 gal.	
	DESCHAMPSIA CAESPITOSA -	california tufted hairgrass	1 gal.	
	DRYOPTERIS EXPANSA -	spreading wood fern	1 gal.	
	ERYTHRONIUM TUOLUMNENSE	fawn lily-	1 gal.	
	FESTUCA CALIFORNICA -	california fescue	1 gal.	
	LILIUM PARDALINUM-	tiger lily	bulb	
	DISTICIS BUCCINATORIA	TRUMPET VINE	5 gal.	CONT.
MIX # 3 - NATIVE GRASSLAND				
	ACHILLEA MILLEFOLIUM	WHITE YARROW-	4" Pot	8" OC
	BRODIAEA CORONARIA -	crown brodiaea	bulb	
	CALOCHORTUS ALBUS -	white globe lily	bulb	
	CALOCHORTUS VENUSTUS -	butterfly mariposa	bulb	ERRATIC CLUSTERS OF 2-3 POTS (3-4 bulbs per 4" pot approx)
	CHLOROGALUM POMERIDIANUM-	wavyleaf soap plant	bulb	ERRATIC CLUSTERS OF 2-3 POTS (3-4 bulbs per 4" pot approx)
	DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	1 gal.	10" OC
	DESCHAMPSIA CAESPITOSA	CALIFORNIA TUFTED HAIRGRASS	1 gal.	10" OC
	DICHELOSTEMMA CAPITATUM -	blue dicks	bulb	bulbs per 4" pot approx)
	ESCHSCHOLZIA CALIFORNICA -	california poppy	seed	2 lbs/acre
	FESTUCA CALIFORNICA	california fescue	plugs	
	NASELLA PULCHRA	PURPLE NEEDLEGRASS	1 gal.	12" OC
MIX # 4 - SHADE TOLERANT				
	ARCTOSTAPHYLOS IMBRICATA SPP. IMBRICA	san bruno manzanita	1 gal.	10" OC
	DRYOPTERIS EXPANSA	spreading wood fern	1 gal.	
	ERYTHRONIUM TUOLUMNENSE	fawn lily	1 gal.	
	POLYSTICHUM MUNITUM-	western sword fern	1 gal.	10" OC
	RHODODENDRON OCCIDENTALE	western azalea	15 gal.	12" OC
	RHODODENDRON MACROPHYLLUM	california rosebay	15 gal.	
MIX # 5 - LOW GROW (NO-MOW) TURF				
	BOUTELOUA GRACILIS- PLUGS	BLUE GRAMA GRASS	PLUGS/hydroseed	8" OC
	LEYMUS TRITICOIDES	CREEPING WILD RYE-	PLUGS/hydroseed	8" OC
	KOELERIA MACRANTHA	JUNEGRASS	4" POT/hydroseed	10" OC
	ACHILLEA MILLEFOLIUM	WHITE YARROW	4" POT/hydroseed	8" OC

ECO-MACHINE PLANTINGS - Per John Todd Ecological Design Inc.

VEGETABLE GARDEN AREA - Per NASA (TBD)

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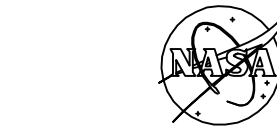
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SUPERVISOR

DATE



Ames Research Center  
Moffet Field, California

N232 COLLABORATIVE SUPPORT FACILITY

PLANTING LEGEND  
AND SCHEDULE

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CASE CODE  
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A232-0800-

L600B

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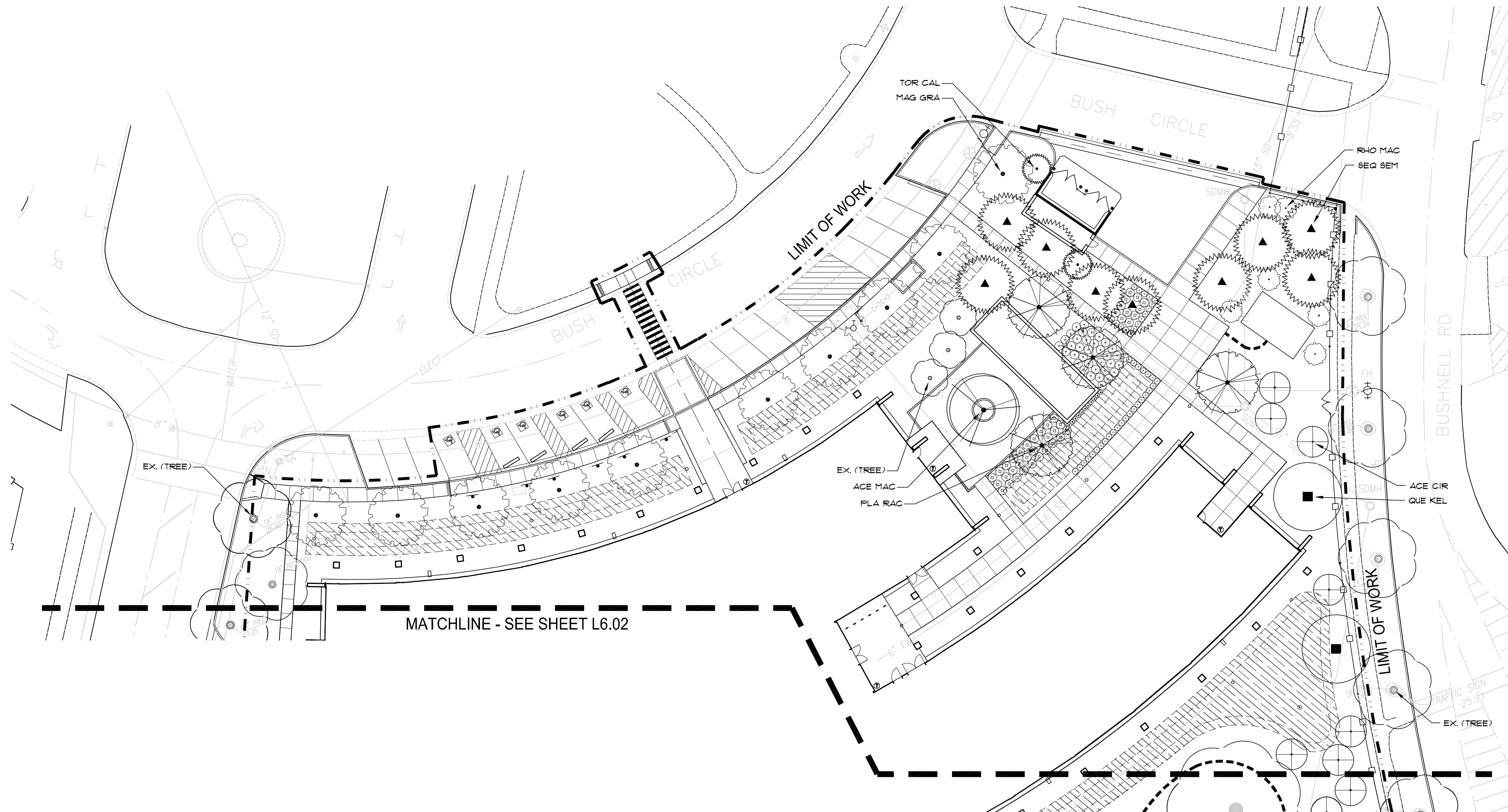
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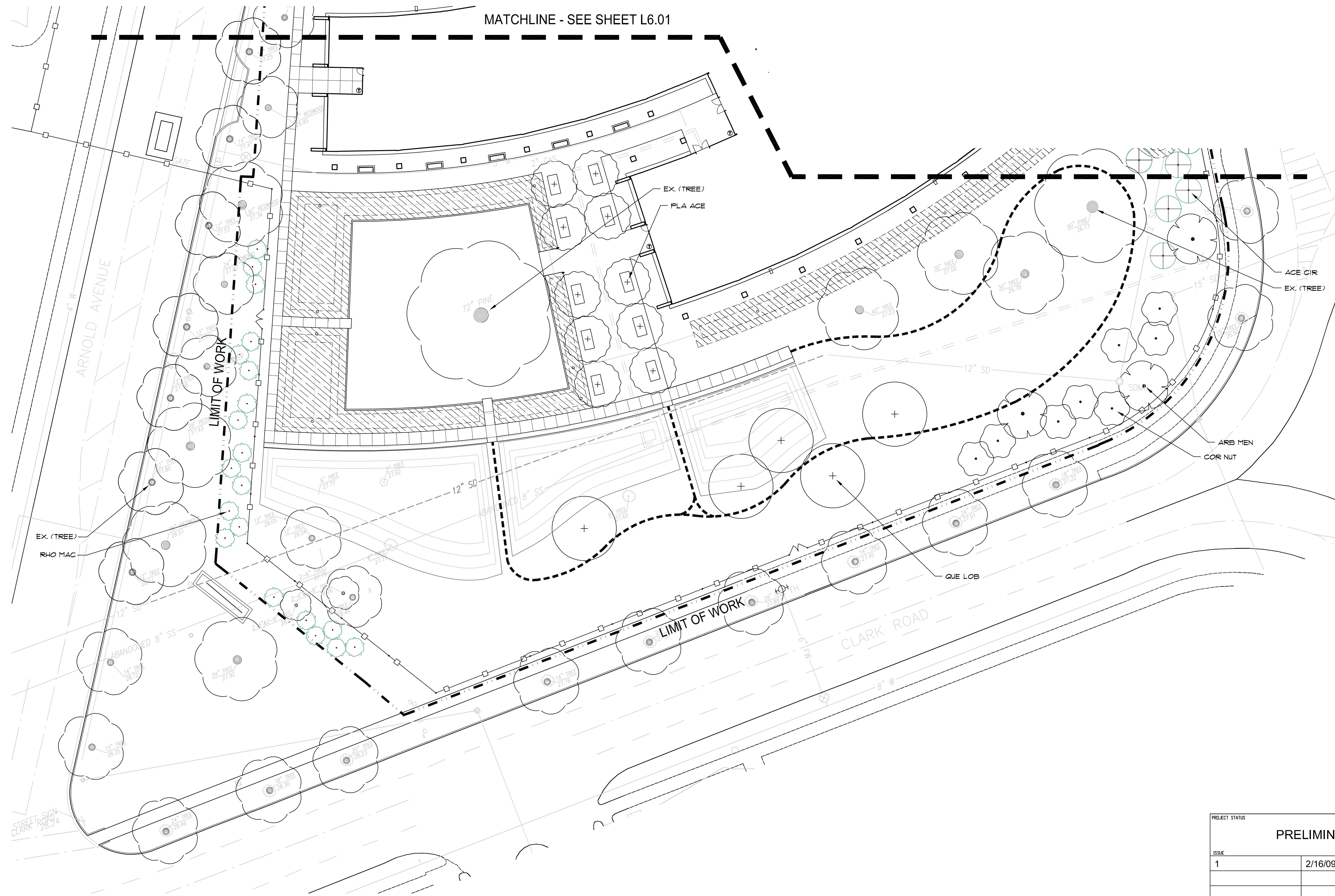





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PERMITS	DATE				
REQUESTOR	DATE				
QA/QA	DATE				
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SUPERVISOR	DATE				
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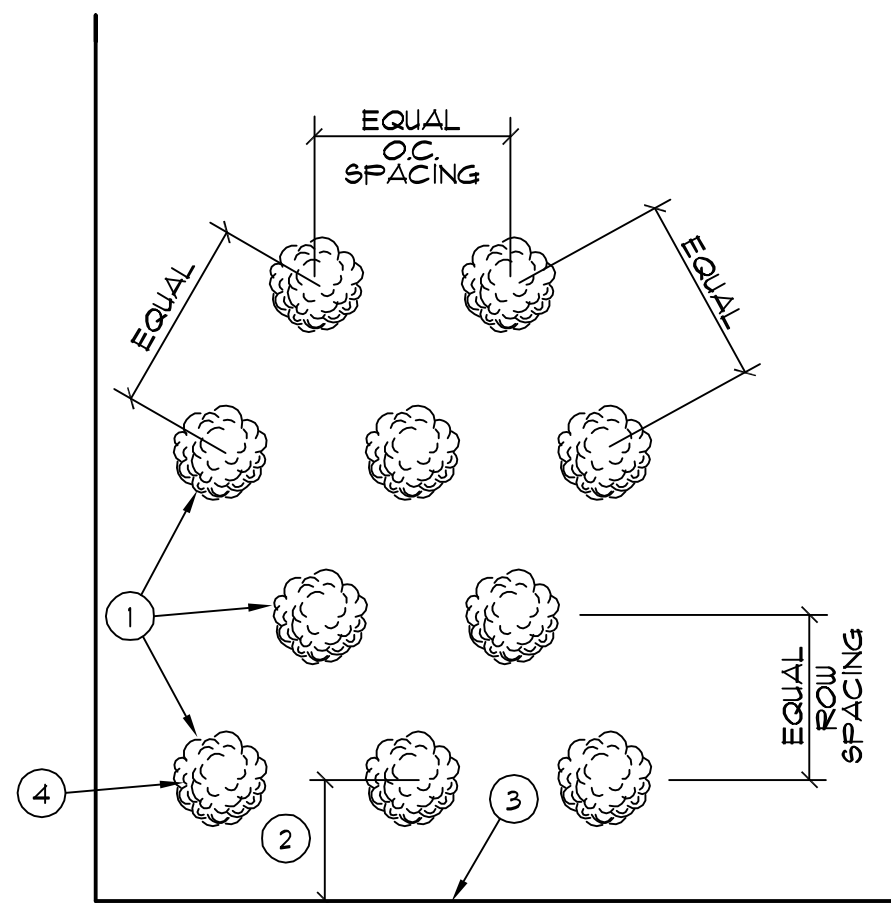
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DATE: Feb 16, 2009 - 5:21:42 pm Images:  
Xrefs: XDR "D-Tree-12" D-TRI-SPACING D-SHRUB "D-Tree-Protection



LEGEND:

- 1 LOCATE PLANT MATERIAL SPACED EQUAL DISTANT FROM EACH OTHER AS SHOWN ON PLANTING PLAN / PLANTING LEGEND.
- 2 OFFSET DISTANCE OF 1/2 THE PLANT ON-CENTER SPACING.
- 3 EDGE OF PAVING, CURB, BUILDING, HEADER, ETC.
- 4 WHERE TRIANGULAR SPACING MEETS WALKWAY AT END ADD A PLANT TO SQUARE OFF THE END.

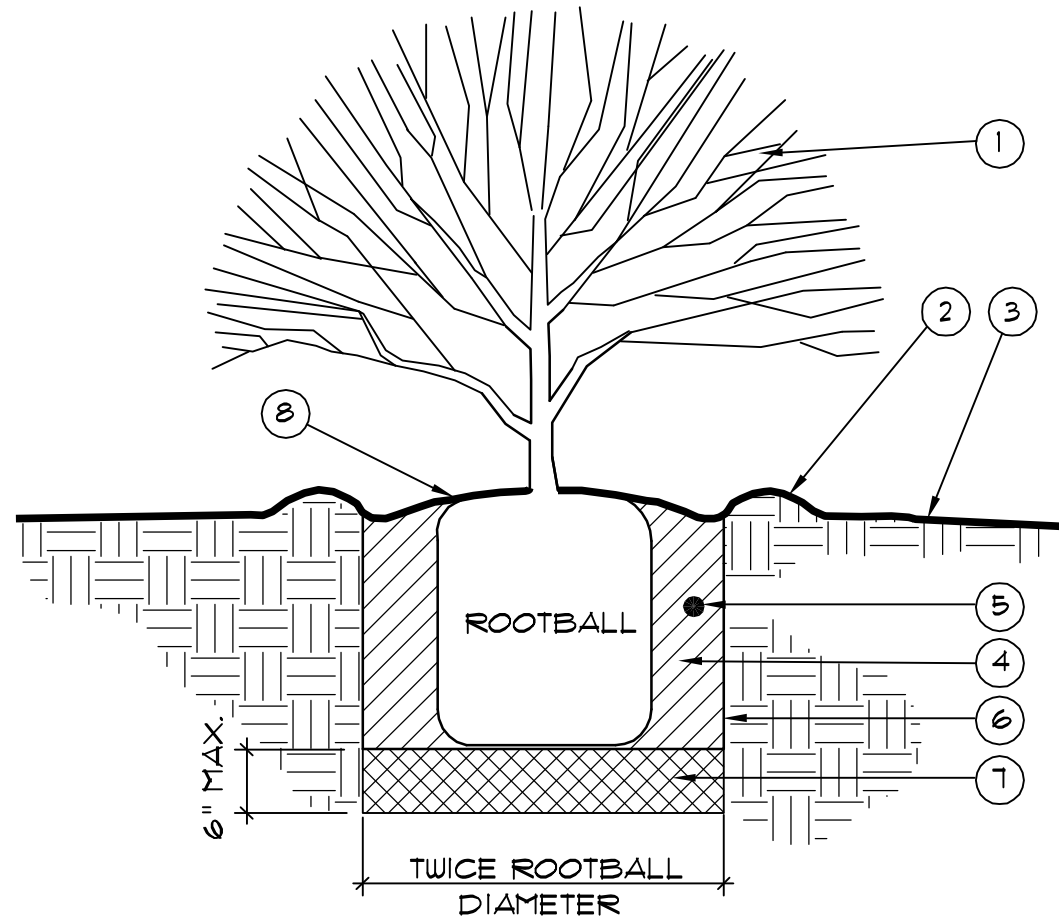
NOTES:

1. SET FINISH GRADE OF PLANTING AREA 2-INCHES BELOW FINISH SURFACE OF PAVING, WALK OR MOWSTRIP.
2. PLANTING INSTALLATION SHALL COMPLY TO THE CITY STANDARDS.

SHRUB AND GROUND COVER PLANTING

SCALE: N.T.S.

D-TRI-SPACING



LEGEND:

- 1 SHRUB - CENTER IN PIT.
- 2 2" DEEP WATERING BASIN.
- 3 FINISH GRADE.
- 4 AMENDED BACKFILL PER HORTICULTURAL SOILS REPORT.
- 5 PLANTING TABLETS PER SPECIFICATIONS.
- 6 SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
- 7 TRANSITION ZONE OF COMPACTED AND UNAMENDED NATIVE SOIL.
- 8 SET TOP OF ROOTBALL 1/2" ABOVE SURROUNDING GRADE AND SLOPE FOR DRAINAGE.

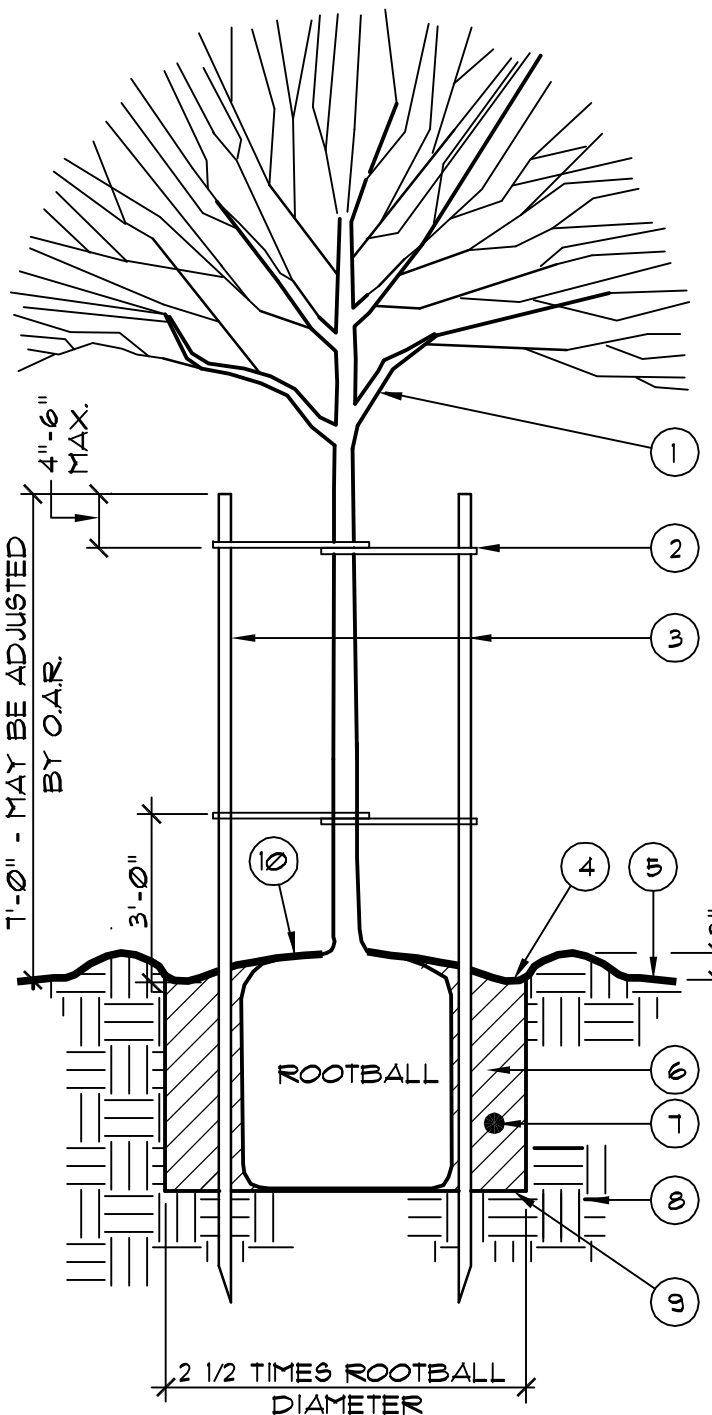
NOTES:

1. PROVIDE 2-INCH LAYER OF APPROVED MULCH AT PLANT BASINS. MULCH TO BE 6-INCHES AWAY FROM THE SHRUB STEM.

SHRUB AND GROUND COVER PLANTING

SCALE: N.T.S.

D-SHRUB



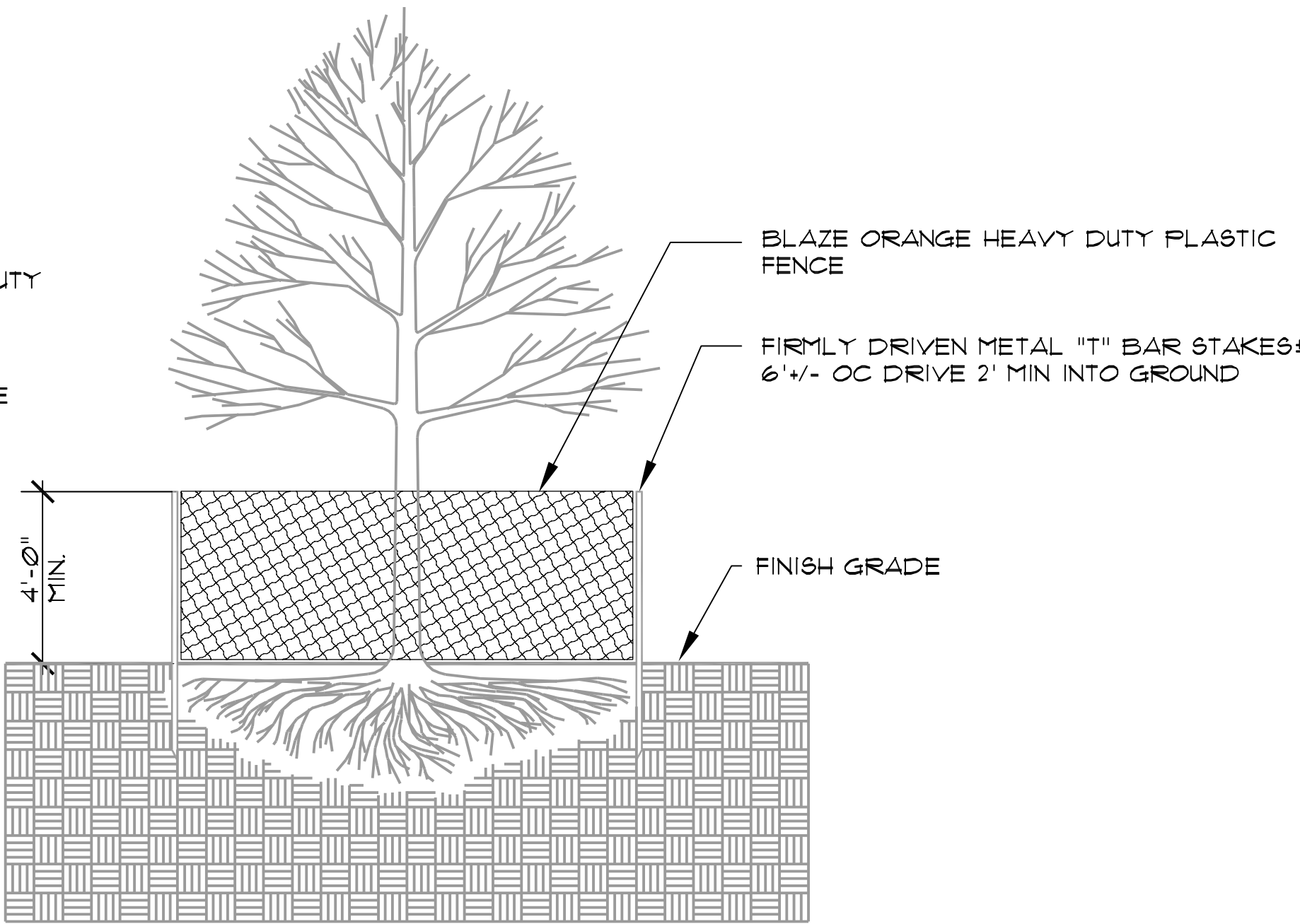
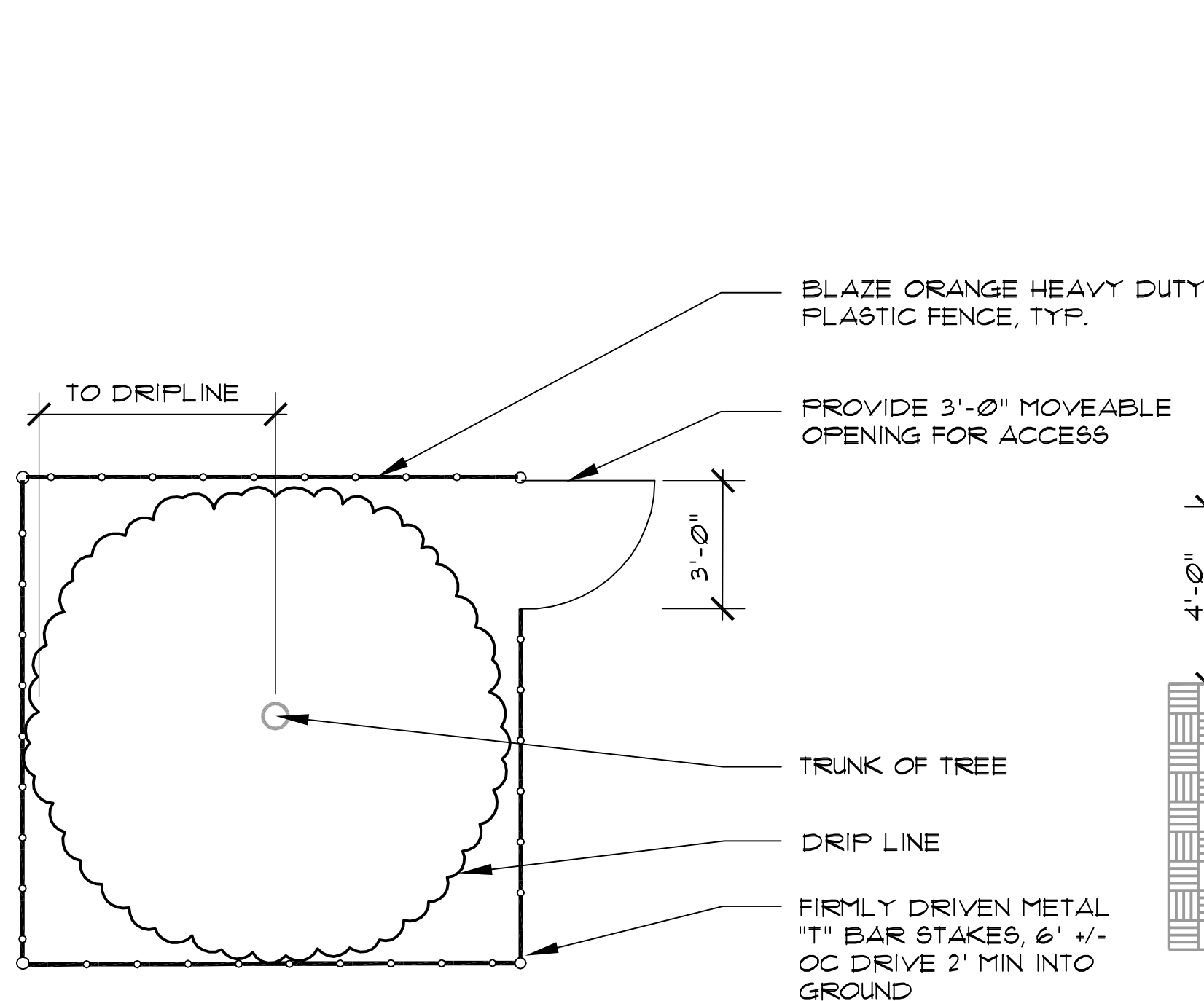
LEGEND:

- 1 TREE - CENTER IN PIT.
- 2 THE WONDER TREE TIE - MODEL W2424. INSTALL PER MANUFACTURER'S SPECIFICATIONS. PH: (800) 910-2810
- 3 3" DIAMETER LODGE POLE PINE TREE STAKE. DRIVE STAKES A MINIMUM OF 2 FEET INTO NATIVE SOIL BENEATH PLANTING PIT. THE STAKES SHALL BE INSTALLED OUTSIDE THE ROOTBALL OF THE TREE.
- 4 WATER BASIN.
- 5 FINISH GRADE.
- 6 AMENDED BACKFILL PER HORTICULTURAL SOILS REPORT.
- 7 PLANT TABLET PER SPECIFICATIONS
- 8 UNDISTURBED NATIVE SOIL.
- 9 SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
- 10 SET TOP OF ROOTBALL 3" ABOVE FINISH GRADE AND SLOPE FOR DRAINAGE.

TREE PLANTING - DOUBLE STAKE

SCALE: N.T.S.

D-TREE-DBL-STAKE



NOTES:

1. PROVIDE SIMILAR INSTALLATION CONTINUOUSLY AS NOTED.
2. SEE TREE PRESERVATION NOTES ON SHEET L-100B FOR ADDITIONAL INFORMATION.

TREE PRESERVATION FENCING

SCALE: NTS

DTL-Proto-Fence.dwg

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